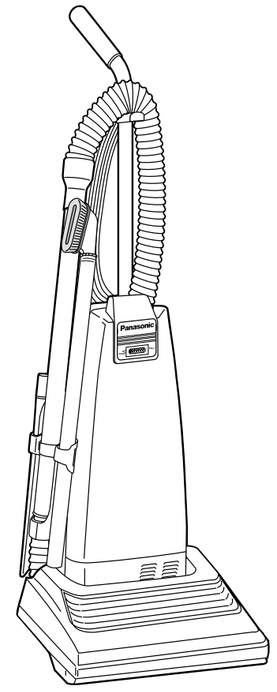
ORDER NO. MAC 121902U
E4

Service Manual

Vacuum Cleaner

MC-V5268 00



■ SPECIFICATIONS

Model	MC-V5268
Power Source	AC 120V (60 Hz)
Power Consumption	12.0 Amps
Cord Length	30 Ft.
Vac Gauge	Yes
Headlight	Yes
Attachments – Tools-On-Board	Yes
Weight	17.0 lbs.

Specifications are subject to change without notice for further improvement.

Panasonic®

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⚠ *WARNING*

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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■ NOTES

■ MOTOR REPLACEMENT

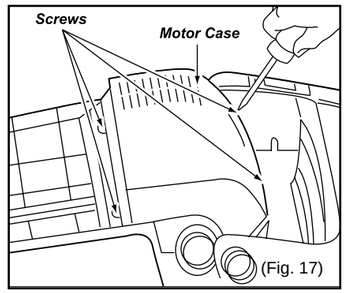
Removal

1. Remove the dust cover by grasping the top near the on-off switch and pulling sharply out toward you.

2. Remove the lower plate, agitator assembly, belt, the plastic shaft, and the nozzle housing as instructed in the respective removal sections.

3. Turn the vacuum over to the front side and remove the four (4) screws from the motor case and then remove the motor case, *(Fig. 17)*.

4. Disconnect the motor leads and remove the motor. Remove the motor support rubber (rear), noise suppressor, and the motor support rubber (front). Place these items on the new motor. See the **C Block** for a view of these.



(Fig. 17)

Installation

1. Place the motor back into the dust compartment with brushes aligned parallel to the front edge of the dust compartment. The motor support (rear) must also align with the tabs in the same direction.

2. Rewire per the PICTORIAL DIAGRAM.

3. Replace the motor case and the four (4) screws.

4. Turn the vacuum back over and replace the plastic shaft, nozzle housing, belt, agitator assembly, and lower plate according to the respective installation instructions.

NOTE: For general servicing, it is necessary to eliminate pinching of any wire during reassembly. After servicing any electrical component or electrical enclosure, the unit should be reassembled and checked for dielectric breakdown or current leakage.

■ CARBON BRUSH REPLACEMENT

Removal and Installation

1. Complete brush change on one side before starting on the other side. There are two (2) brushes located on the motor as identified by *(Fig. 18)*. Remove the brush assembly by using a Phillips head screwdriver to remove the screw that holds the brush holder onto the motor. See (*Fig. 18)* for screw location.

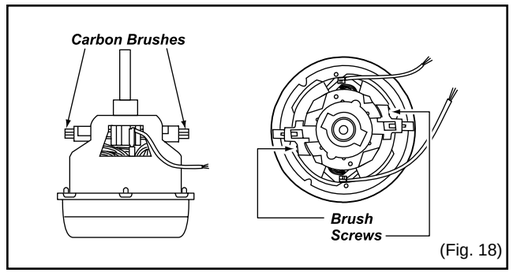
NOTE: Do not drop screws into the motor.

2. Place new brush assembly on the motor.

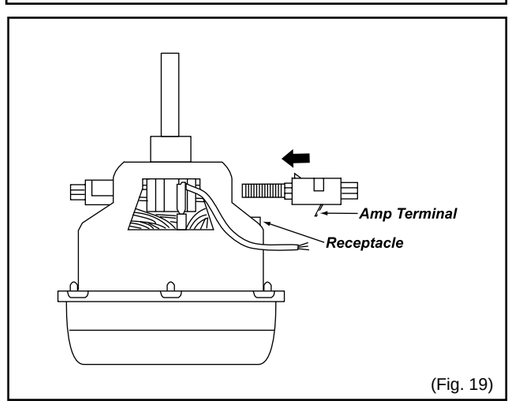
NOTE: Make sure that the amp terminal on the bottom of the brush assembly is inserted into the receptacle on the motor, *(Fig. 19)*.

3. Replace the Phillips screw that was removed.

4. Repeat steps 1-3 for the other brush assembly.

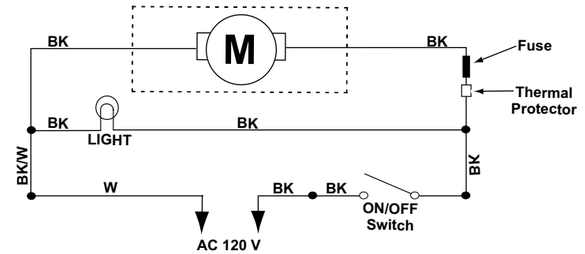


(Fig. 18)



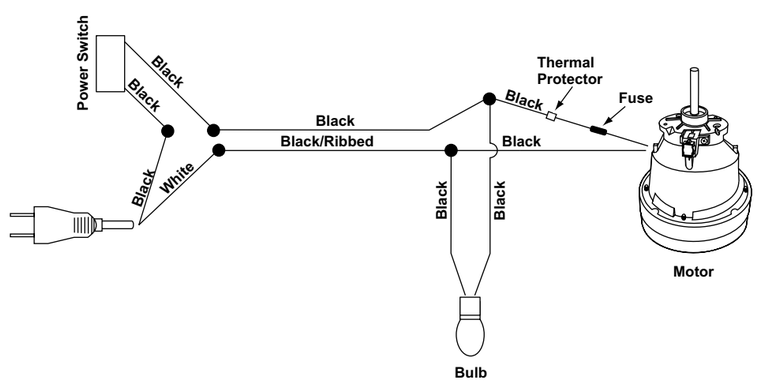
(Fig. 19)

■ SCHEMATIC DIAGRAM

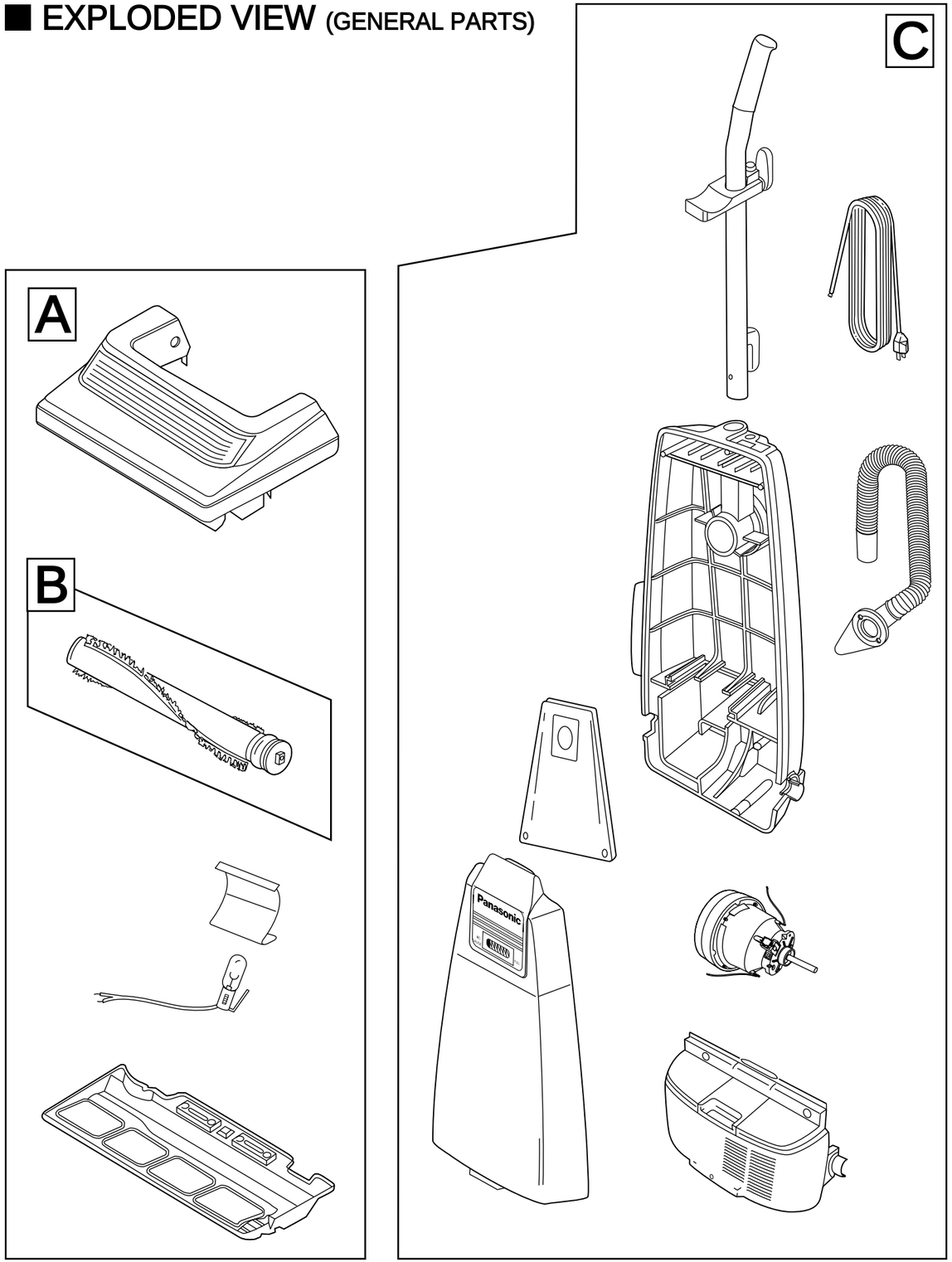


NOTE: For general servicing, it is necessary to eliminate pinching of any wire during reassembly. After servicing any electrical component or electrical enclosure, the unit should be reassembled and checked for dielectric breakdown or current leakage.

■ PICTORIAL DIAGRAM



■ EXPLODED VIEW (GENERAL PARTS)



■ POWER CORD/ON-OFF SWITCH REPLACEMENT (Cont.)

Installation

1. Insert the new power cord, (power cord replacement only) with approximately five (5) inches of new power cord extending into the dust compartment. This distance is to be measured from the cord stopper to the end of the longest power cord lead. Route power cord correctly, making sure that 1 in. (25 mm.) of jacket extends beyond handle screw post, *(Fig. 15)*. Attach wires with wire connectors.

2. Replace the cord stopper, (power cord replacement only), the two (2) cord stopper screws and the wire connectors.

NOTE: Never reuse a cord stopper. Always install a new cord stopper whenever the old one is removed.

3. For switch replacement only, insert the new on-off switch with the numbers 1,2,3, facing toward you, into the dust compartment until secured by the retaining tabs. Use a wire tie with the part number listed in the **C Block** parts list and place it in the location shown in (*Fig. 15),* taking care not to overtighten it. Tuck the wire connectors back into the dust compartment as shown in the close-up view in (*Fig. 15).*

4. Ensure that the Insulator Packing is correctly installed *(See Fig. 16).*

5. Replace the switch cover, the two (2) switch cover screws, and the dust cover. Care should be taken not to pinch wires and make sure that the switch cover goes on easily and stays flat. If there is resistance to the switch cover lying flat and in place, stop, remove the cover and make sure that no wires are being pinched. **DO NOT USE A POWER SCREWDRIVER TO SECURE THE COVER.**

NOTE: Any service involving the handle or switch cover area should be followed up with a dielectric or current leakage check of the unit. If you do not have the equipment or are not familiar with the test procedures, take the unit to an authorized servicer.

■ HOSE REPLACEMENT

Removal

1. Remove the dust cover and dust bag.

2. Remove the end of the hose from the wand. Remove the hose by removing the two screws which secure it to the dust container.

Replacement

1. Install the new hose by replacing the two screws which secure it to the dust container.

2. Replace the hose onto the wand.

3. Replace the dust bag and dust cover.

■ THERMAL OVERLOAD REPLACEMENT

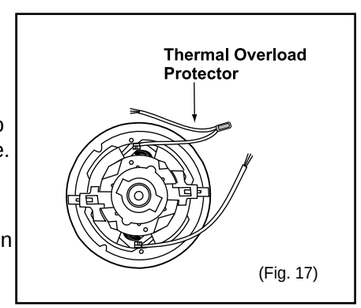
Removal

1. Remove motor, as shown in MOTOR REPLACEMENT section.

2. Remove wire nut from the lead wire that contains the thermal protector. Remove old thermal protector and replace with new thermal protector. Reconnect wire nut to thermal overload. Replace lead wire containing protector wires back into the groove.

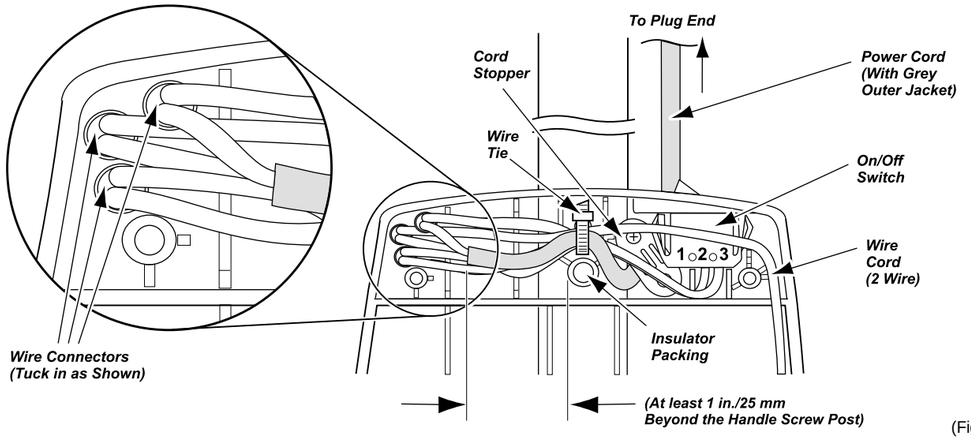
Installation

1. Place the motor back into the dust compartment, following the instructions given in the MOTOR REPLACEMENT section.



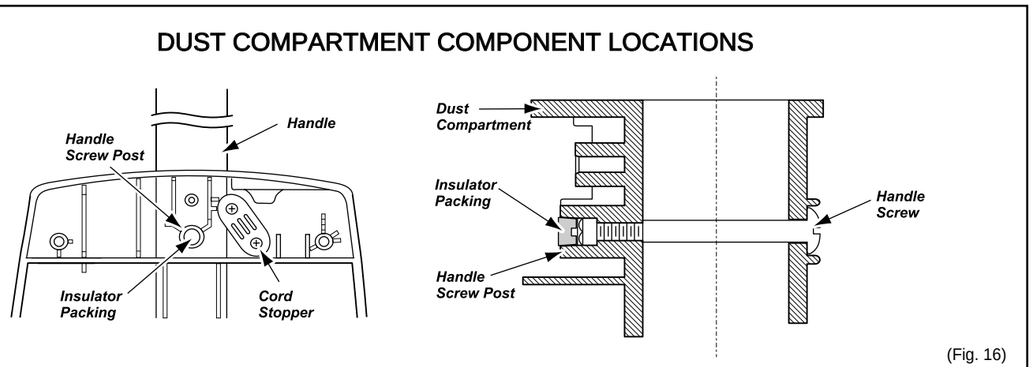
(Fig. 17)

■ SWITCH COVER AREA WIRING MANAGEMENT


To Plug End
Cord Stopper
Power Cord (With Grey Outer Jacket)
Wire Tie
On/Off Switch
1 2 3
Wire Cord (2 Wire)
Insulator Packing
Wire Connectors (Tuck in as Shown)
(At least 1 in./25 mm Beyond the Handle Screw Post)

(Fig. 15)

■ POWER CORD/ON-OFF SWITCH REPLACEMENT



(Fig. 16)

Removal

1. Remove the dust cover and switch cover to expose the electrical connections of the power cord, on-off switch, and wire cord.

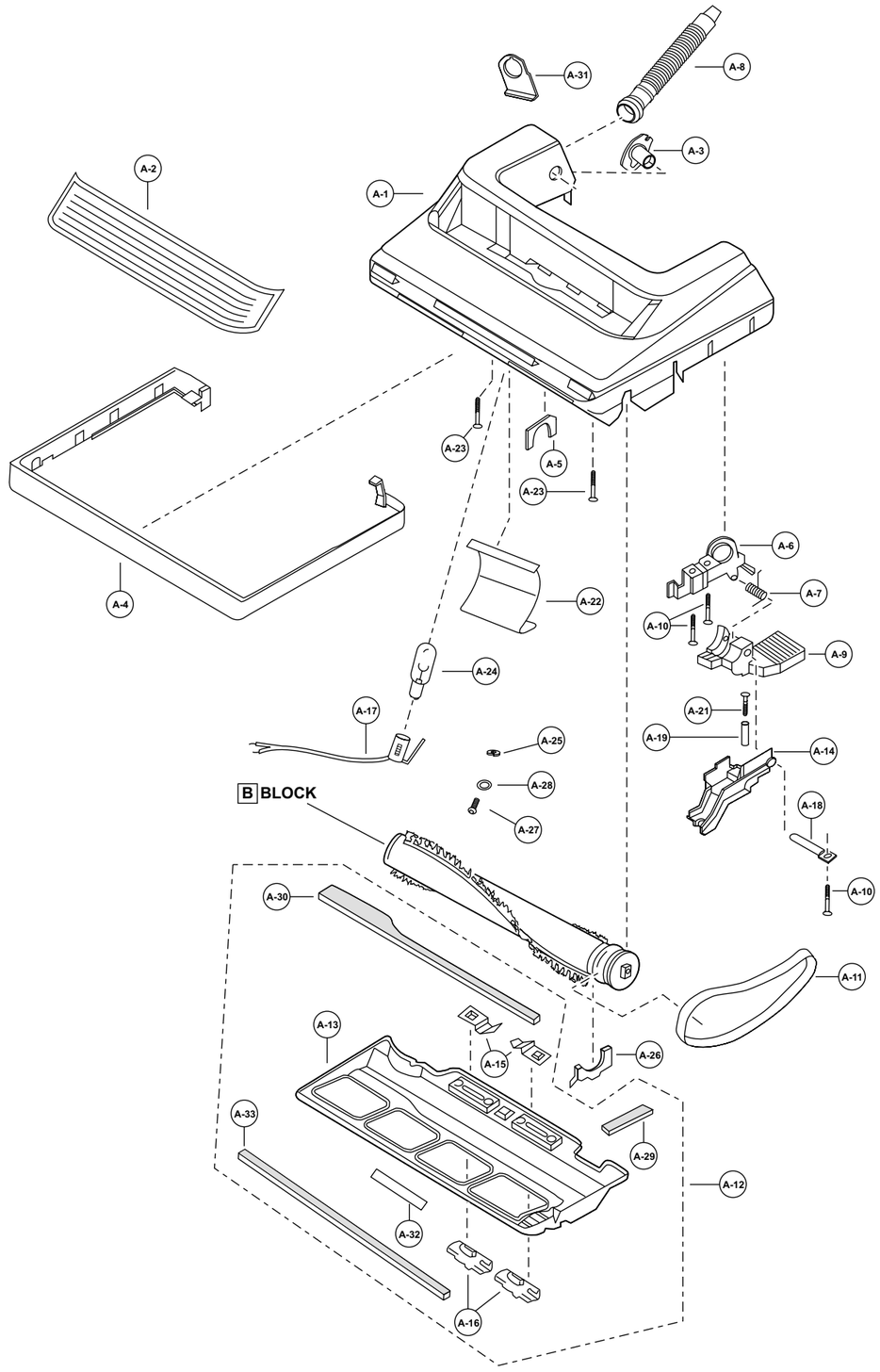
2. Remove the two (2) cord stopper screws (for power cord replacement), the wire connectors, and wire tie, if present.

3. Remove the on-off switch, (for on-off switch replacement) by depressing the switch retaining tabs while pushing up out of the dust compartment at the same time.

4. Pull the power cord out of the dust compartment (for power cord replacement).

(Continued on next page)

■ EXPLODED VIEW (NOZZLE HOUSING)... [A] BLOCK



■ PARTS LIST (NOZZLE HOUSING)... [A] BLOCK

Ref. No.	Part Name & Description	Part No.	Quantity	Remarks
A – 1	Nozzle Housing	ACØ1ABYZZMU9	1	
A – 2	Window	AMC21H-2XØ	1	
A – 3	Shaft (Plastic)	AMC25S-VØØ	1	
A – 4	Furniture Guard	AC1ØA2VZVØ7	1	
A – 5	Packing (Nozzle)	AMC81A-VØØ	1	
A – 6	Frame	AMC43A-2VØ	1	
A – 7	Spring (Pedal)	AMC58A-2VØ	1	
A – 8	Nozzle Hose	AC34PAJDZVØ6	1	
A – 9	Pedal	AMC47A-2VØU	1	
A – 10	Screw (Frame)	AXTN4+16BFY	3	
A – 11	Belt	AC28SJPZØØ	1	
A – 12	Lower Plate Assembly	AC91AADGZØØ	1	
A – 13	Lower Plate	AC27AADGZØØ	1	Includes A-32 Label
A – 14	Belt Cover (Rear)	AMC11S-2VØW	1	
A – 15	Stop Latch Spring	AC7ØNYUZØØ	2	
A – 16	Latch	AMC68N-V3ØK	2	
A – 17	Bulb Socket	AC93HURZØØ	1	
A – 18	Pedal Shaft	AMC51A-2VØ	1	
A – 19	Spacer	AMC74S-Z1ØØG	1	
A – 21	Screw (Spacer)	AXTN4+28BFY	1	
A – 22	Reflector	AC84HURZWØØ	1	
A – 23	Screw (Nozzle)	AMC68A-V3Ø	2	
A – 24	Bulb	AC28GADFZØØ	1	
A – 25	Spring (Washer)	AMC-XWA5BFY	1	
A – 26	Agitator Holder	AMC82A-2VØ	1	
A – 27	Screw (Bulb Socket)	AXTN4+1ØBFY	1	
A – 28	Washer	AMC58B-F7Ø	1	
A – 29	Packing (Lower Plate Right)	AMC39A-2VØ	1	
A – 30	Packing (Lower Plate Back)	AMC74A-2VØ	1	
A – 31	Hose Supporter	AMC24P-2VØ	1	
A – 32	Warning Label	ACØ7ZADFZØØ	1	
A – 33	Packing (Lower Plate Front)	AC74AAAEZØØ	1	

■ NOZZLE HOUSING AND NOZZLE HOSE REPLACEMENT

Removal

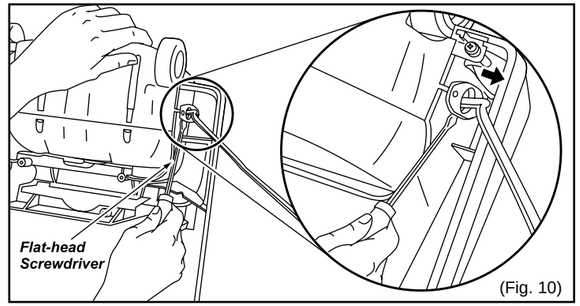
1. Remove the lower plate, agitator assembly, and belt as outlined in their respective sections.

2. Remove the nozzle hose by pulling up on the hose supporter to remove it from the nozzle housing. Pull the nozzle hose out of main body and remove from vacuum.

3. Remove the headlight assembly and reflector by following the instructions relating to the removal of these items.

4. Remove three (3) screws from pedal assembly.

5. Insert a flat blade screwdriver between the nozzle housing and the plastic shaft, pry out the plastic shaft as illustrated, *(Fig. 10)*.



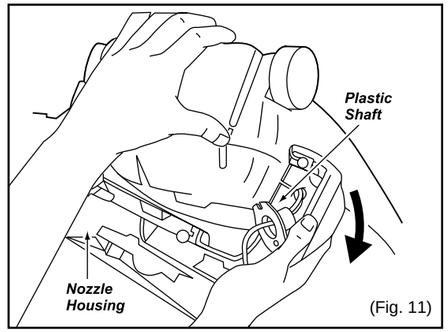
(Fig. 10)

6. Remove the nozzle housing by pulling off of main body as illustrated, *(Fig 11)*. Both sides are slotted, one to clear headlight wire and the other to clear the motor shaft. The pedal assembly will remain on the main body.

7. Remove the tight packing and furniture guard from the nozzle housing, *(Fig. 12)*.

8. Remove the window by prying the two (2) locking tabs away from the nozzle housing and pushing out on the window.

CAUTION: If the motor case cover is removed, DO NOT turn vacuum over as the motor may fall out.



(Fig. 11)

Installation

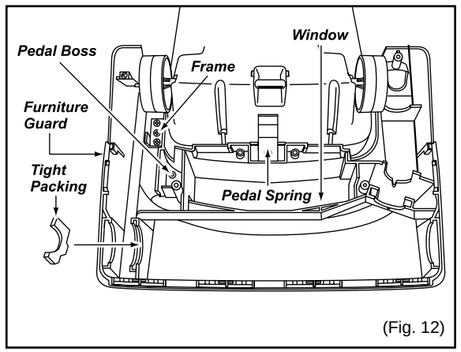
1. Install the window, furniture guard, and tight packing, if not already in place in the new nozzle housing, *(Fig. 12)*.

2. Fit the nozzle onto the main body by sliding the nozzle housing between the frame and the main body on the motor shaft side and the headlight wire through the slot on the opposite side as illustrated, *(Fig. 13)*.

3. Slide the plastic shaft through the nozzle housing and into the dust container. Make sure that the slot on the bottom of the plastic shaft is down and fitted onto the projection, *(Fig. 14)*.

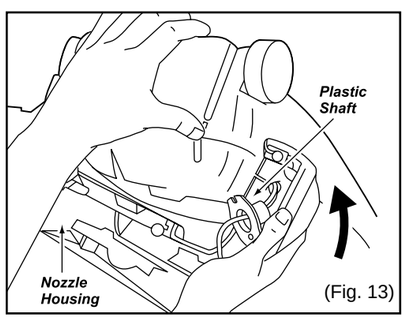
4. Replace the three (3) screws that secures the pedal assembly.

5. Replace the reflector, headlight assembly, and nozzle hose. The nozzle hose has a locator tab that fits into a slot in the main body.

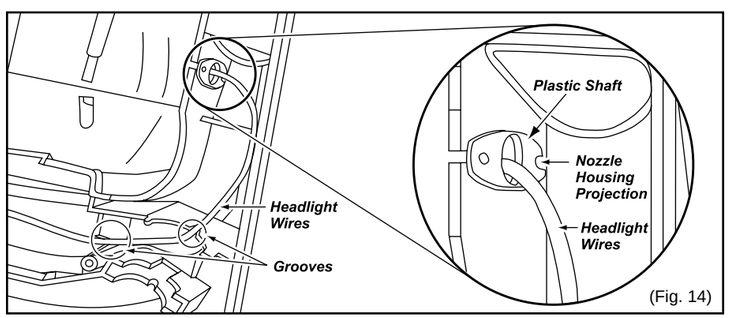


(Fig. 12)

6. Install the belt, agitator assembly, and the lower plate according to their respective instructions.



(Fig. 13)

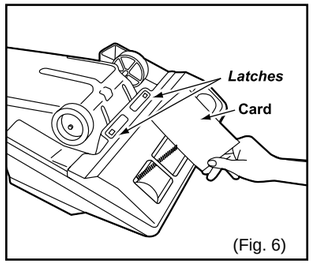


(Fig. 14)

■ BRUSH REPLACEMENT

When to replace brushes

The agitator brushes should be replaced when the brushes are worn. Brushes should be checked by holding a card across the lower plate, (Fig. 6). If the bristles on the agitator assembly **do not** touch the card you **should** replace all the brushes for best cleaning results.



(Fig. 6)

Removal

1. Remove the lower plate as outlined in the LOWER PLATE REMOVAL/ INSTALLATION section.

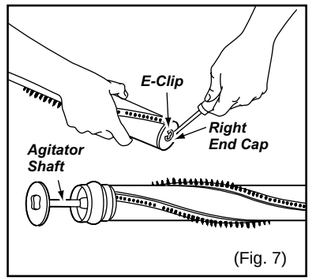
2. Remove the agitator assembly as outlined in the AGITATOR ASSEMBLY REMOVAL/INSTALLATION section.

3. The agitator assembly may now be dissassembled and the brushes replaced.

4. Carefully remove the E-clip from the agitator shaft, *(Fig. 7),* do not misplace. Remove the right brush support. Pull the agitator shaft out of the opposite end of the agitator.

5. Pull or pry out the agitator pulley and agitator holder, *(Fig. 8).*

6. Push each brush out of the agitator, *(Fig. 9).*



(Fig. 7)

Installation

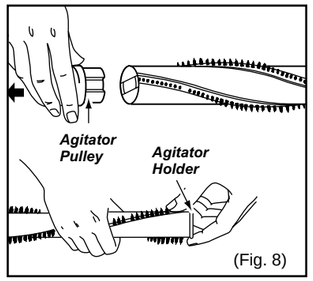
1. Pull the new brushes into the slots in the brush holder.

2. Reinstall the agitator holder and agitator pulley, making sure they are completely and firmly inserted. See the **B Block** section for an exploded view.

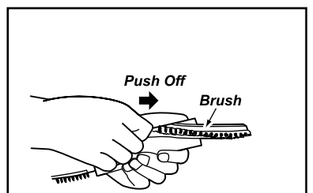
3. Reinstall the agitator shaft, brush support, and the small E-clip.

4. Reinstall the agitator assembly as outlined in the AGITATOR ASSEMBLY REMOVAL/INSTALLATION section.

5. Reinstall the lower plate as outlined in the LOWER PLATE REMOVAL/ INSTALLATION section.

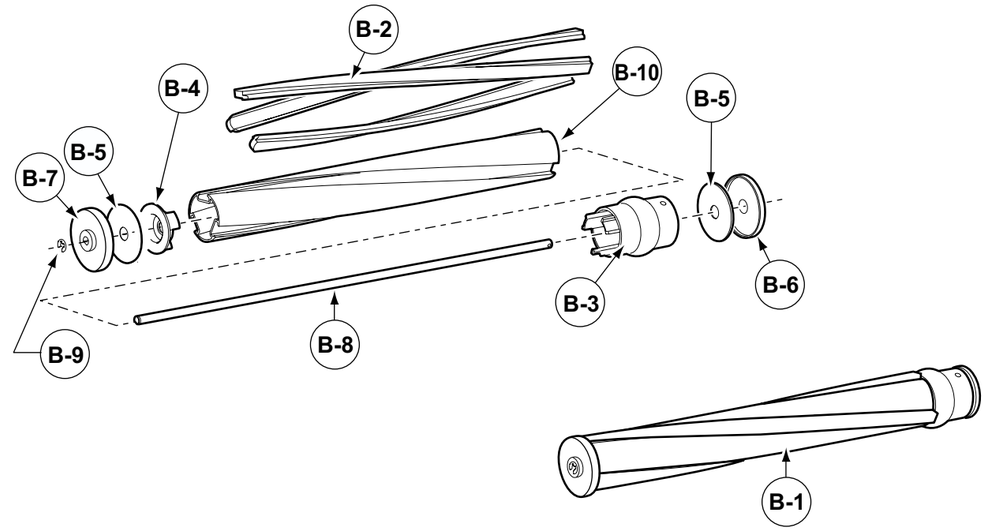


(Fig. 8)



(Fig. 9)

■ EXPLODED VIEW (AGITATOR ASSEMBLY)... [B] BLOCK

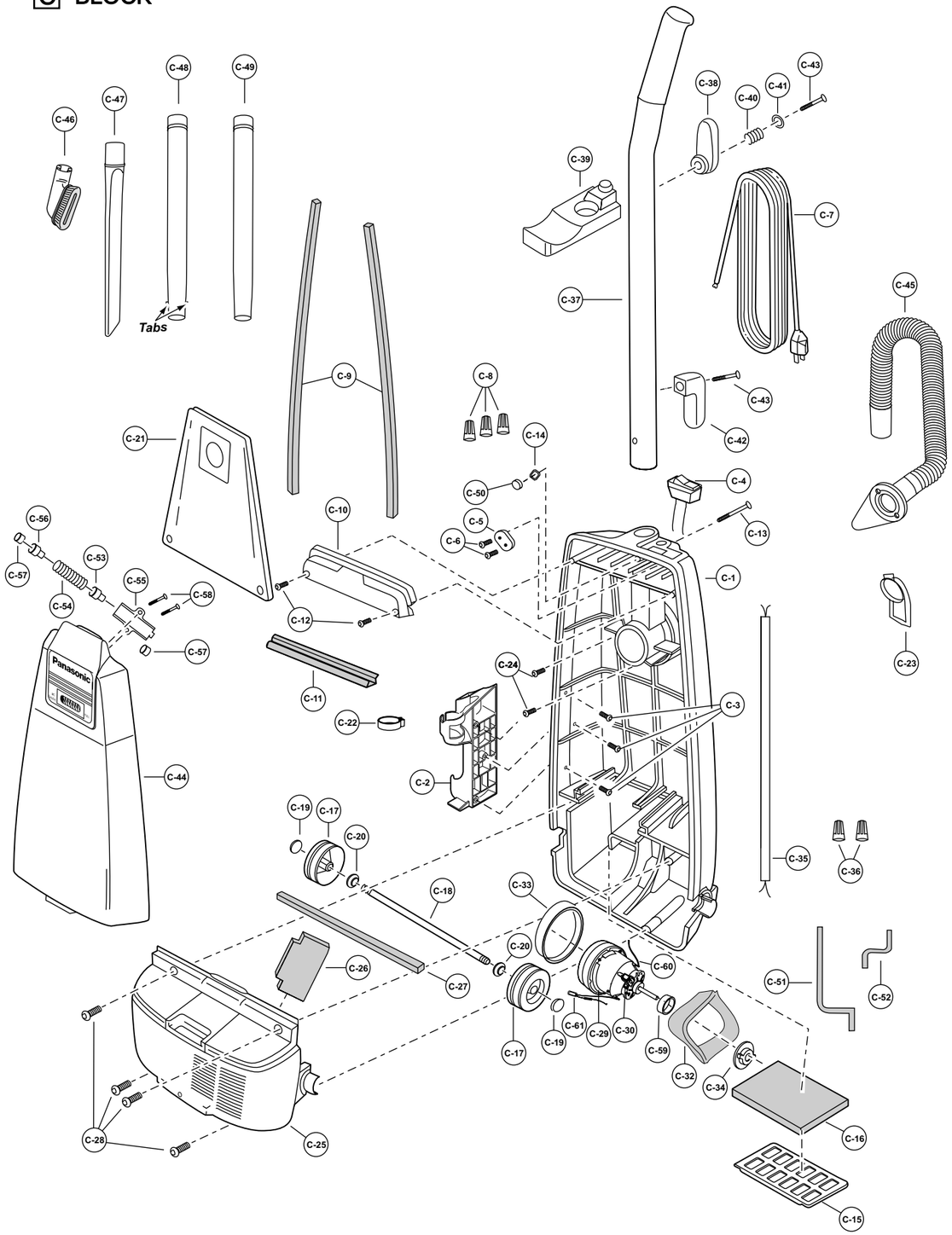


■ PARTS LIST AGITATOR ASSEMBLY)... [B] BLOCK

Ref. No.	Part Name & Description	Part No.	Quantity	Remarks
B – 1	Agitator Assembly	AC92SBYYZØØØ	1	
B – 2	Brush (3 Pcs.)	AC85RBYYZØØØ	1(Set)	
B – 3	Agitator Pulley	AC29SBYYZØØØ	1	
B – 4	Agitator Holder	AC41SBVNZØØØ	1	
B – 5	Filter	AC44KBVNZØØØ	2	
B – 6	Brush Support (Left)	AC96DBVNZØØØ	1	
B – 7	Brush Support (Right)	AC97DBVNZØØØ	1	
B – 8	Agitator Shaft	AC57RBYYZØØØ	1	
B – 9	Ring-Clip	AC23FBVNZØØØ	1	
B – 10	Agitator	AC56RBVNZØØØ	1	

■ EXPLODED VIEW (MOTOR HOUSING, MOTOR, HANDLE, AND BODY)...

C BLOCK



■ AGITATOR ASSEMBLY REMOVAL/INSTALLATION

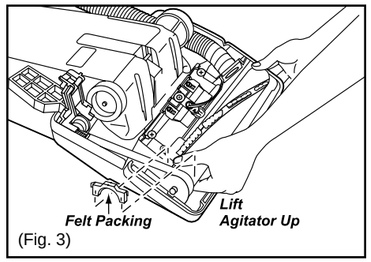
Removal

The brushes are replaceable separately. When the brushes need replacing, the agitator assembly will have to be removed.

1. Remove the lower plate as outlined in the LOWER PLATE REMOVAL/ INSTALLATION section.

2. Carefully lift up on the agitator assembly until it clears both sides of the nozzle housing, *(Fig. 3)*.

3. Remove the belt from the agitator pulley by sliding it off over the agitator assembly, *(Fig. 4)*.



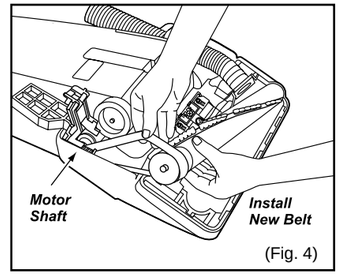
(Fig. 3)

Installation

NOTE: The brush supports are different and each must be assembled on the correct end of the agitator assembly. See the exploded view in the **B Block** section.

1. Place the belt around the motor shaft, *(Fig. 4)*.

2. Start the new agitator assembly back into the nozzle housing by placing the side opposite the belt partially into the slot. The small tabs should be aligned with one against the nozzle and the other against the lower plate. This will hold the agitator in place and leave both hands free to place enough tension on the belt to allow that side of the agitator to return to the nozzle housing slot.



(Fig. 4)

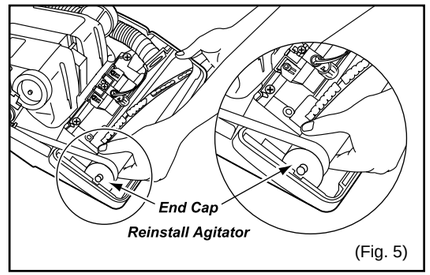
3. Place the belt around the agitator pulley on the agitator assembly.

NOTE: There is a place for the belt to fit on one end of the agitator assembly only. This is the agitator pulley.

4. Use both hands to pull the belt tight, *(Fig. 5)*, and slide the agitator assembly firmly into the slots on each end of the nozzle housing.

5. Rotate the agitator assembly by hand to insure nothing rubs and to check for correct assembly.

6. Replace the lower plate as outlined in the LOWER PLATE REMOVAL/INSTALLATION section.



(Fig. 5)

■ BELT REPLACEMENT

Removal

1. Follow all of the removal instructions outlined in the AGITATOR ASSEMBLY REMOVAL/INSTALLATION section.

Installation

1. Place the new belt around the motor shaft and follow the installation instructions in the AGITATOR ASSEMBLY REMOVAL/INSTALLATION section.

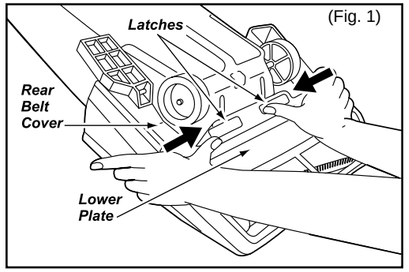
■ LOWER PLATE REMOVAL/INSTALLATION

Removal

1. Place the handle in the upright position.

2. Turn the vacuum cleaner over exposing the underside. Release the lower plate by pressing the two (2) latches that secure it inward, (*Fig 1)*.

3. Separate the lower plate from the vacuum.



(Fig. 1)

Installation

1. Close the rear belt cover.

2. Hook the front of the lower plate into the slots on the front of the nozzle housing. Press the lower plate down into place.

3. Fasten the lower plate by pushing the two (2) latches outward.

NOTE: For general servicing, it is necessary to eliminate pinching of any wire during reassembly. After servicing any electrical component or electrical enclosure, the unit should be reassembled and checked for dielectric breakdown or current leakage.

■ HEADLIGHT BULB REPLACEMENT

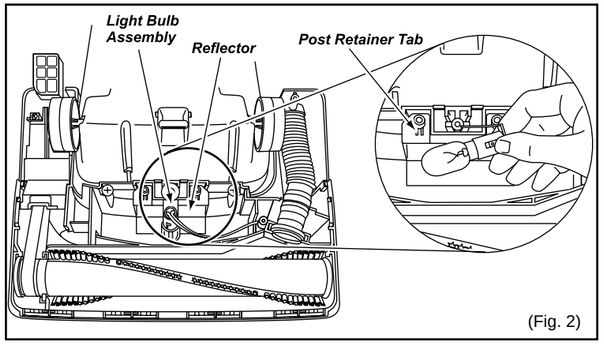
REMOVAL

1. Remove the lower plate as instructed in the LOWER PLATE REMOVAL/INSTALLATION section.

2. Remove the screw, washer, and spring washer that hold the light bulb assembly in place.

3. Carefully lift out the light bulb assembly by grasping the bulb socket and wiggling it back and forth while pulling up at the same time (see *Fig. 2*). This will separate it from the nozzle housing slot.

4. To remove the reflector, if necessary, the post retainer tabs will have to be pried up. When reinstalling, bend the tabs down to hold the reflector in place.



(Fig. 2)

5. The bulb can be removed by pushing it down into the bulb socket and turning it counterclockwise.

NOTE: The light bulb assembly must be removed to install the new bulb.

INSTALLATION

NOTE: Do not use a bulb rated over 15 Watts. During extended use, heat from the bulb could overheat the surrounding plastic parts.

1. A standard bayonet base appliance bulb rated 120 VAC, 15 Watts should be used.

2. To install a new bulb, press it down into the bulb socket and turn it clockwise until it locks into place.

3. Reinsert the light bulb assembly back into place by sliding it back down into the slot in the nozzle housing. Replace the spring washer, washer, and screw. Replace the lower plate by following the instructions in the LOWER PLATE REMOVAL/INSTALLATION section.

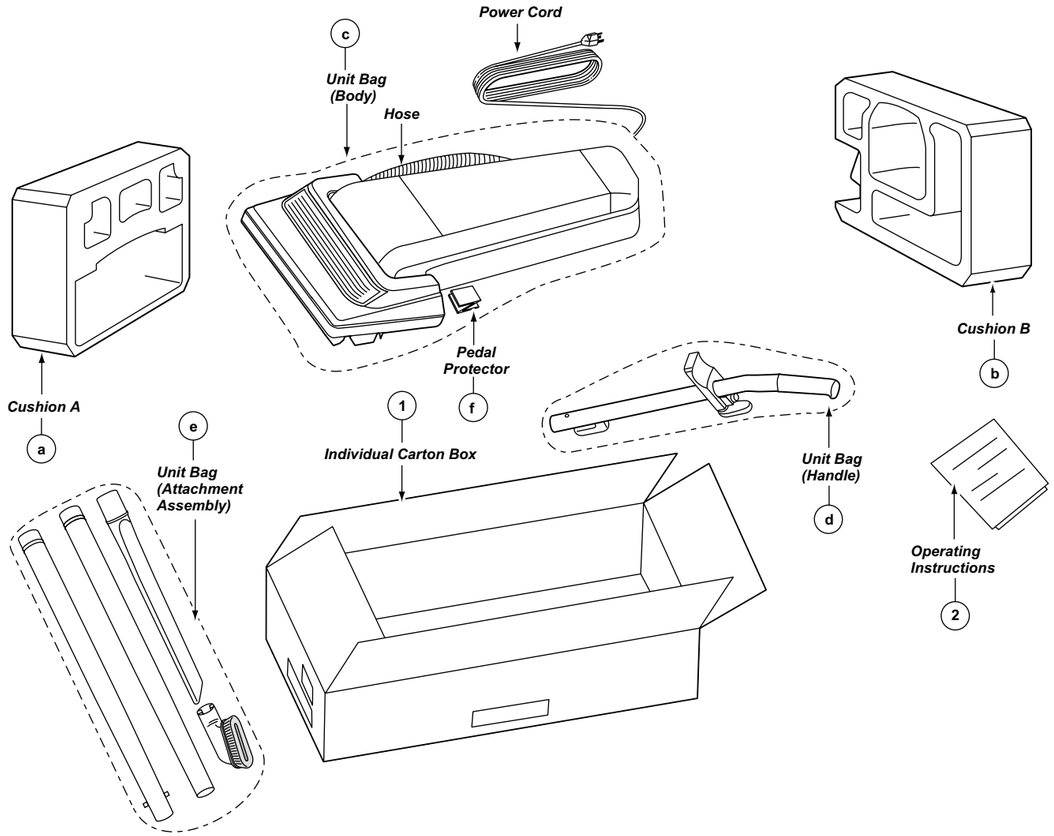
■ PARTS LIST (MOTOR HOUSING, MOTOR, HANDLE, AND BODY)... C BLOCK

Ref. No.	Part Name & Description	Part No.	Quantity	Remarks
C - 1	Dust Compartment	AC78KARSZVØ7	1	Includes C-49 and C-50 Packing
C - 2	Wand Holder	AC7ØPJPZVØ7	1	
C - 3	Screw (Wand Holder)	AXTN4+16BFY	3	
C - 4	On-Off Switch	AMC98E-VØ1ØU	1	
C - 5	Cord Stopper	AMC62E-J2Ø	1	
C - 6	Screw (Cord Stopper)	AXTN4+16BFY	2	
C - 7	Power Cord	AC97EAEEZVØ6	1	
C - 8	Wire Connector	AMC-1CTCE23	3	
C - 9	Packing (Dust Container)	AC66KVØ1VØ6	2	
C - 10	Switch Cover	ACØ3EVØ7VØ6	1	
C - 11	Packing (Switch Cover)	AC73KVØZVØ6	1	
C - 12	Screw (Switch Cover)	AXTN4+16BFY	2	
C - 13	Handle Screw	AMC73B-VØØ	1	
C - 14	Nut (Handle Screw)	AMP21B-17Ø	1	
C - 15	Filter Supporter	AMC32K-VØØ	1	
C - 16	Secondary Filter (HEPA)	AC37KAAEZØØ	1	
C - 17	Wheel	AMCØ1C-VØØU	2	
C - 18	Shaft (Wheel)	AC16CUSZØØ	1	
C - 19	Stopper (Wheel)	AC74SUSZØØ	2	
C - 20	Washer	AXWG6E115FY	2	
C - 21	Dust Bag (Type U6)	AC16KJYZØØ	1	
C - 22	Hose Hook	AC53RJPZVØ6	1	
C - 23	Cover (Suction Inlet)	ACØ2HYUZVØ6	1	
C - 24	Screw (Suction Inlet)	AXTN4+16BFY	2	
C - 25	Motor Case	ACØ9FARSZVØ7	1	
C - 26	Packing (Rear Cover)	AMCØ2L-VØØ	1	
C - 27	Packing (Motor Case)	AC19FARSZVØ6	1	
C - 28	Screw (Motor Case)	AXTN4+2ØBFY	4	
C - 29	Fan Motor Unit	AC92FARSZØØ	1	
C - 30	Carbon Brush	AC69RAKEZØØ	1 (Set)	
C - 31	Screw, Brush (Not Illustrated)	AC68AAKEZØØ	2	
C - 32	Noise Suppressor	AC99GAMMZØØ	1	
C - 33	Motor Support (Front)	AMCØ2F-EØØ	1	
C - 34	Motor Support Rubber (Rear)	AMCØ3F-VØØ	1	
C - 35	Wire Cord	AMC37G-V2ØØU	1	
C - 36	Wire Connector	AMC-1CTCE23	2	
C - 37	Handle	AMC64B-V2ZØØ	1	
C - 38	Upper Cord Storage Hook	AC53EVØZVØ7	1	
C - 39	Hose Holder	AC23PJP1VØ7	1	
C - 40	Spring (Cord Hook)	AMC76N-F7Ø	1	
C - 41	Washer (Cord Storage Hook)	AMC58B-F7Ø	1	
C - 42	Lower Cord Storage Hook	AC54EVØZVØ7	1	
C - 43	Screw (Cord Storage Hook)	AXTN4+3ØBFY	2	

■ PARTS LIST (MOTOR HOUSING, MOTOR, HANDLE, AND BODY)... C BLOCK

Ref. No.	Part Name & Description	Part No.	Quantity	Remarks
C - 44	Dust Cover	AC6ØKBYZZMU9	1	
C - 45	Hose	AC84PJPZVØ6	1	
C - 46	Dusting Brush	AC88RYUZVØ6	1	
C - 47	Crevice Tool	AC6ØRZFZVU6	1	
C - 48	Wand (With Tabs)	AC4ØPJPZVØ6	1	
C - 49	Wand (Extension)	AC4ØPZG1VØ6	1	
C - 50	Packing (Insulator)	AC61LAGMZØØ	1	
C - 51	Packing (Right)	AC39AARSZVØØ	1	
C - 52	Packing (Left)	AC4ØAARSZVØØ	1	
C - 53	Lead (Indicator)	AMCØ3M-68ZRØ	1	
C - 54	Spring (Indicator)	ACØ4MRFZØØ	1	
C - 55	Body (Indicator)	AC15MVZØØ	1	
C - 56	Cap (Indicator)	AMC17M-V2Ø	1	
C - 57	Packing (Indicator)	AMCØ9M-L3Ø	2	
C - 58	Screw (Indicator)	AXTN4+1ØBFY	2	
C - 59	Ring Spacer	AC53MAKEZØØ	1	
C - 60	Lead Wire (Motor)	AC38GARTZØØ	1	
C - 61	Thermal Protector Unit	AC98WAUDZØØ	1	

■ EXPLODED VIEW (PACKING MATERIALS)



■ PARTS LIST (PACKING MATERIALS)

Ref. No.	Part Name & Description	Part No.	Quantity	Remarks
1	Packaging Assembly	AC61ZBYXZØØØ	1	Includes 1 and items a-f
2	Operating Instructions	ACØ1ZBYYZØØØ	1	